City of Tempe

ENTERPRISE NETWORK ENGINEER II+

JOB CLASSIFICATION INFORMATION

Job Code:	385	*FLSA Status:*	Exempt
Department:	Internal Services / Engineering & Transportation	*Salary / Hourly Minimum:*	$83,863
Supervision Level:	Non-Supervisor	*Salary / Hourly Maximum:*	$113,215
Employee Group:	NSU	*State Retirement Group:*	ASRS
Status:	Classified	*Market Group:*	Enterprise Network Engineer II+
Drug Screen / Physical:	N	N	*EEO4 Group:*	Professionals

DISTINGUISHING CHARACTERISTICS

This is the journey level class within the Enterprise Network Engineer series. Employees within this class are distinguished from the Enterprise Network Engineer I+ by the performance of complex duties. When assigned to Internal Services, these duties include telecommunications, cybersecurity and LAN/WAN analysis and design duties. When assigned to Engineering & Transportation (E&T), these duties include designing, installing and maintenance of Intelligent Transportation Systems (ITS). Employees at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the I-level, or when filled from the outside, more extensive telecommunications, LAN/WAN or ITS experience is required.

REPORTING RELATIONSHIPS

Receives direction from the IT Supervisor, Traffic Engineer or from other supervisory or management staff.

MINIMUM QUALIFICATIONS

Experience:	**_When assigned to Internal Services:_** Three years of LAN/WAN, information security or telecommunications infrastructure engineering experience and proficiency in two of the following: switches and routers, trunked radio, cable engineering, voice networks, infrastructure security, wireless, or data communications. **_When assigned to Engineering & Transportation (E&T):_**

	Four years of engineering experience and project management. In addition, two years of increasingly responsible experience in transportation engineering.
Education:	Requires the equivalent to a bachelor's degree from an accredited college or university with major course work in electronics, communications, systems or civil engineering or degree related to the core functions of this position.
License / Certification:	Must possess and maintain a valid driver's license. ***When assigned to Internal Services:*** Possession and maintenance of a valid Cisco Certified Network Associate (CCNA) certification. ***When assigned to Engineering and Transportation (E&T):*** • Possession and maintenance of a valid Cisco Certified Network Associate (CCNA) or equivalent certification. • Possession of a Certificate of Registration as a professional engineer in the State of Arizona is preferred.

ESSENTIAL JOB FUNCTIONS

Essential job functions are the fundamental duties of a position: the things a person holding the job absolutely must be able to do.

To actively support and uphold the City's stated mission and values. To perform technical work in the long-range planning, design, and management of the electronic communications infrastructure utilized by the City; and to provide technical assistance to staff in the installation and maintenance of voice, data, cybersecurity, video conferencing and radio equipment.

OTHER DUTIES AS ASSIGNED

Please note this job description is not designed to cover or contain a comprehensive listing of all activities, duties or responsibilities that are required of the employee for this job.   Duties, responsibilities and activities may change at any time with or without notice.

- Perform job duties adequately and properly; follow personnel and department policies and operating procedures; show respect, tact, and courtesy in dealings with coworkers and the general public; behave in a manner that does not obstruct or hinder other employees from completing their duties; act in a manner that is safe and follow the City's safety procedures at all times.

- Develop tactical and long-range plans for the City's LAN/WAN, cybersecurity and telecommunications infrastructure; perform routine analysis on the design and efficiency of the infrastructure to ensure that its current and future structure will meet the business needs of the City; install and maintain LAN/WAN, cybersecurity and telecommunications infrastructure equipment; administer software related to management of the infrastructure.

- Act as project coordinator for technical projects of moderate complexity in such areas as integrated voice and data, local area and wide-area networks, video, wireless systems, trunked radio, cybersecurity and related infrastructure.
- Assist in developing complex technical specifications for the design or purchase of communications equipment including fiber optic systems, high-speed cable, voice/data switches and routers, cybersecurity solutions and related equipment; evaluate communications products.
- Assist in the development and implementation of long-term goals and objectives to meet the City's LAN/WAN, cybersecurity and telecommunications infrastructure needs.
- Research LAN/WAN, cybersecurity and telecommunications infrastructure equipment to ensure that it meets the specifications established by the City; recommend design, construction, installation, and maintenance of equipment. Manage building projects including horizontal cabling, communications needs, underground assets, and permitting.
- Prepare operational reports including project status, equipment, network, inventory and area activity summaries; develop and maintain procedures manuals.
- Participate in budget preparation and administration; prepare cost estimates for budget recommendations; monitor and control expenditures.
- Participate in the selection of staff.
- Maintain contact with vendors to obtain information on product changes and new products; call vendors for status reports on purchases.
- Attend professional meetings and conferences as required.
- Perform related duties as assigned.
- Physically present to perform the duties of the position.

When assigned to Engineering and Transportation (E&T):

- Perform technical transportation engineering and computer applications work to support the Tempe transportation system, development and operations of the Tempe transportation operations center, the Light Rail transit (LRT) project, the Street Car project and other Intelligent Transportation System (ITS) initiatives.
- Develop, monitor and updates traffic signal timing plans and implement citywide traffic signal coordination plans using the City's traffic signal computer system; conduct field observations to test traffic signal timing programs and related ITS operations.
- Participate in developing the plans, specifications and estimates for the Traffic / Transit Operations Center and Transit maintenance facilities; coordinate the development of the traffic signal / train interface for Tempe; interact with private developments with regard to LRT signal and other traffic issues.
- Perform related duties as assigned.

PHYSICAL DEMANDS *AND* WORK ENVIRONMENT

- Pending

COMPETENCIES

CLASSIFICATION LEVEL	INCLUDES	COMPETENCIES
Foundational	All Employees	Inclusion, Communication, Interpersonal Skills, Integrity, Professionalism, and Willingness to Learn
Non-Supervisory	In Addition >	Teamwork, Customer Service, Initiative, and Dependability / Reliability
Supervisory	In Addition >	Staffing, Monitoring Work, Delegating, Development / Mentoring, and Support Others
Manager	In Addition >	Preparing / Evaluating Budgets, Monitoring / Controlling Resources, and Motivating / Inspiring
Deputy Director	In Addition >	Entrepreneurship and Networking
Director	In Addition >	Organizational Vision
For more information about the City of Tempe's competencies for all classifications: City of Tempe, AZ : Competencies		

JOB DESCRIPTION HISTORY

Effective November 1988
Reviewed October 1995
Revised April 2001
Revised November 2001
Revised May 2002 (changed to flex-class)
Revised July 2003 (title change; range adjustment; duties to include additional LAN/WAN focus)
Revised January 2008 (Certs)
Revised December 2019 (Added when assigned to Engineering & Transportation min quals and job duties)